

Figure 1

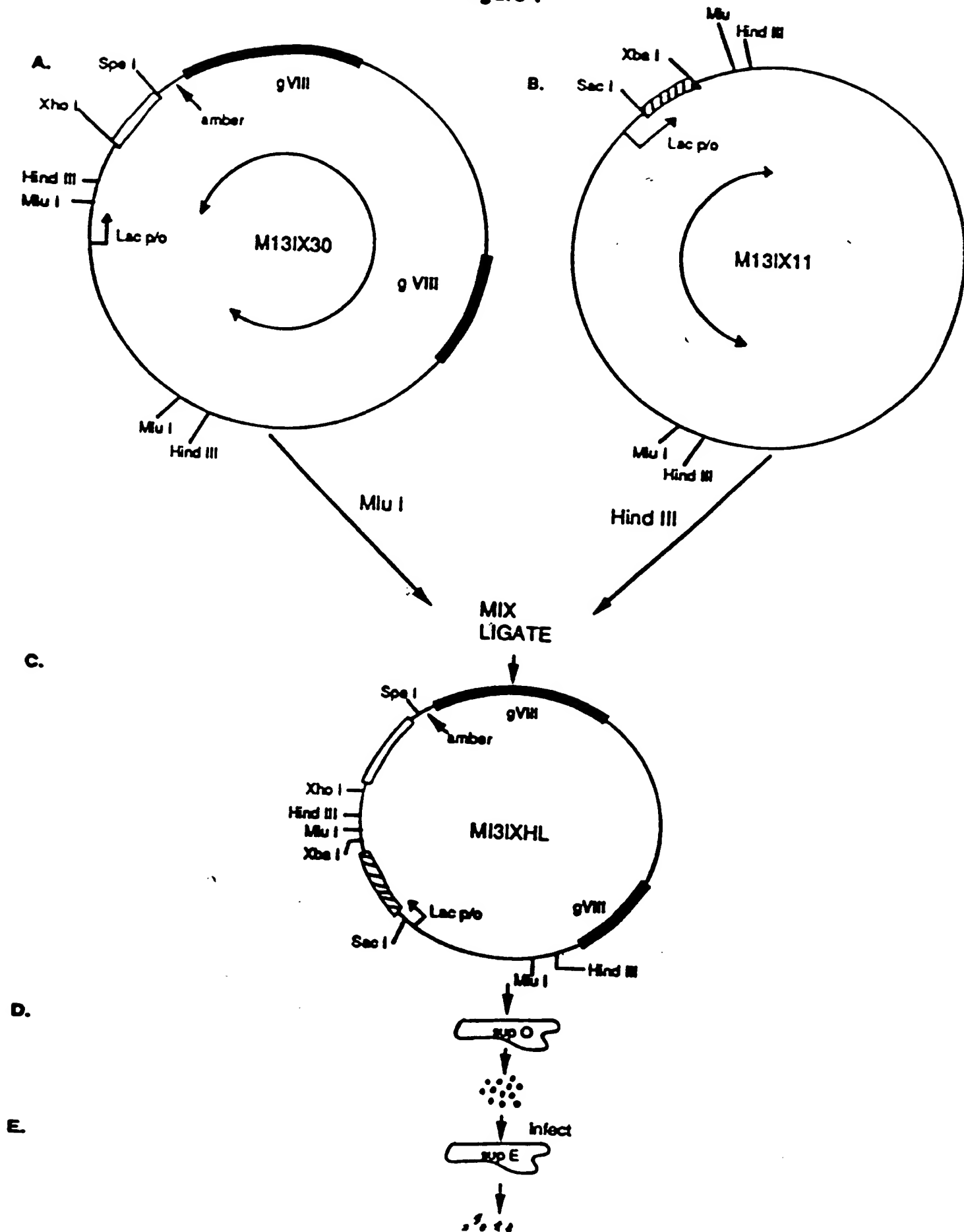


FIGURE 2-1

M131X30

	1	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAC	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT	60
61	ATAGCTAAAC	AGGTATTGCA	CCATTTGCCA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTCCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGCTCT	GGTTCCGCTT	GAAGCTCGAA	TTAAACGCCG	ATATTGGAAG	360
361	TCTTTCCGGG	TTCCTCTTAA	TCTTTTGTAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAAC	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTCCAGCC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCCT	TCCGTATTTT	600
601	GGTTTTTATC	GTCGCTCTGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCCTCGT	660
661	AATTCCCTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAAATGTTGT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCCGATA	AGGTAATTTA	840
841	CAATGATTAA	AGTTGAAAT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTGT	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCCGCT	CGTTCCGCTT	AAGTAACATG	GAGCAGGTCC	CGGATTTCCA	CACAATTTAT	1140
1141	CAGGCGATGA	TCAAAATCTC	CGTTGTACTT	TGTTTCGGCG	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTTCTTCC	CCTCTTTCTG	TTTAGGTTGG	TGCCCTTCGT	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAAATG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCTT	1320
1321	CAAAAGCCTCT	GTAGCCGTTG	CTACCCCTCGT	TCCGATGCTG	TCTTTCCGCT	CTGAGCGTGA	1380
1381	CGATCCCGCA	AAAGCGCCCT	TAACTCCCTT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA	1440
1441	TCCGTGCGCG	ATGGTTGTTG	TCATTGTCCG	CGCAACTATC	GCTATCAAGC	TGTTTAAGAA	1500
1501	ATTACACCTC	AAAGCAAGCT	GATAAACCGA	TACAATTAAG	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTCGAGA	TTTTCAACGT	CAAAAAATTA	TTATTCCCAA	TTCTTTTAGT	TGTTCTTTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTTA	1680
1681	TTTACTAACC	TCTGGAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
1741	CTGTCGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCTTA	TTGGGCTTGC	TATCCCTGAA	AATGAGCGGT	GTCGGCTTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTCAGTACGG	TGATACACCT	1920
1921	ATTCCCGGCT	ATACTTATAT	CAACCCCTCT	GACGGCACTT	ATCCGCTTGG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCTTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAAATAAT	AGTTCCGAAA	TAGGCAGGGG	GCATTAACTC	TTTATACGGG	CACTGTTACT	2100
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGCAACGG	TAAATTCAGA	GACTCGGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCC	TTTGCAATA	TCAAGGCCAA	TGGTCTGACC	TGCCCAACCT	TCTGTCAAT	2280
2281	GCTGGCGGGG	GCTCTGGTGG	TGGTCTGTGT	GCGCGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTTCTG	AGGGTGGGCG	CTCTGAGGGA	GCGGGTTCCG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	CATTTTGATT	ATGAAAGAT	GGCAACGCT	AATAAGGGGG	CTATCACCGA	AAATGCCCAT	2460
2461	CAAAACCGCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTCTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATGC	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGTACT	2580
2581	GGTGATTTCG	CTGGCTCTAA	TTCCCAATG	GCTCAAGTGC	GTCAGGGTGA	TAAATCACCT	2640
2641	TTAATCAATA	ATTTCCCTCA	ATATTACCT	TCCCTCCCTC	AAATGGTTGA	ATGTGGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AAATAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAAGGATCT	TAATCATGCC	AGTCTTTTGG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCTCGGTT	TTCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCCGTAAG	ATAGCTATTG	CTATTTCATT	GTTCCTTGGT	CTTATTATTT	3000
3001	GGCTTAACTC	AAATCTTGTG	GGTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT	3060
3061	TTGTTTCAGG	TGTTCACTTA	ATCTCCCGGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTC	3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCAATTTTG	AGGTTAAACA	AAAAATCGTT	TCTTATTTGG	3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAAGTGGCA	AAATAGGCTC	TGGAAAGACG	3240
3241	CTCGTTAGCG	TGGTAGATAT	TCAAGATAAA	ATTGTAGCTG	GCTGCAAAAT	AGCAACTAAT	3300
3301	CTTGATTATA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGCT	TCCGTAAAAAC	GCGTGGCGTT	3360
3361	CTTAGAATAC	CGGATAGGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGGG	CGGTAATGAT	3420
3421	TCCTACGATG	AAAAATAAAA	CGCTTGCTTT	GTCTCTGATG	AGTCCGGTAC	TTGGTTTAAAT	3480
3481	ACCCGTTCTT	GGAAATGATA	GGAAAGACAG	CCGATTATTC	ATTGGTTTCT	ACATGCTCGT	3540
3541	AAATTAGCAT	GGGATATTAT	TTTCTTGTGT	CAGGACTTAT	CTATTGTTGA	TAAACAGCGG	3600
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTGCTC	TGGACAGAAAT	TACTTTACCT	3660
3661	TTTGTCCGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCCTGGCC	TAAATTACAT	3720
3721	GTTGGCGTTG	TTAAATATGC	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT	3780
3781	ACTCGTAAGA	ATTGTATATA	CGCATATGAT	ACTAAACAGG	CTTTTCTTAG	TAAATTATGAT	3840

FIGURE 2-2

HUSE P31 8882

3841	TCCCGTGT	ATTCTATT	AACGCCAT	TTATCACACG	GTCGGTATT	CAAACCATTA	3900
3901	AATTTAGGTC	ACAAGATCA	GCTTACTAAA	ATATATTTGA	AAAAGTTTT	ACCGGTTCTT	3960
3961	TGTCTTGCGA	TTGGATTGC	ATCAGCAATT	ACATATAGTT	ATATAACCCA	ACCTAAGCCG	4020
4021	GAGGTAAAA	AGGTAGTCT	TCAGACCTAT	GATTTTGATA	AAATCACTAT	TGACTCTTCT	4080
4081	CAGCGTCTTA	ATCTAAGCTA	TGGTATGTT	TTCAAGGATT	CTAAGCGAAA	ATTAATTAAT	4140
4141	AGCCAGCATT	TACAGAAGCA	AGGTATTCA	CTCACATATA	TGATTTATG	TACTGTTTCC	4200
4201	ATTAATAAAG	GTAATTCAAA	TGAAATTGTT	AAATGTAATT	AAATTTGTTT	TCITCATGTT	4260
4261	TGTTTCATCA	TCTTCTTTTG	CTCAGGTAAT	TGAAATGAAT	AAITCGCTC	TCCGCGATT	4320
4321	TGTAACCTGG	TATTCAAAGC	AATCAGGCCA	ATCCGTTATT	GTTTCTCCCG	ATGTAAAAGG	4380
4381	TACTGTTACT	GTATATTAT	CTGACGTTAA	ACCTGAAAAT	CTACGCAATT	TCTTTATTTC	4440
4441	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
4501	TAAATCCAAAC	AATCAGCATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561	TGATAAATCC	GCTCTTCTG	GTCGTTTCTT	TGTTCCGCAA	AAATGATAATG	TTACTCAAAC	4620
4621	TTTTAAAAAT	AATAACGTT	GCGCAAAGGA	TTTAATACGA	GTTGTGCAAT	TGTTTCTAAA	4680
4681	GTCTAATACT	TCTAAATCT	CAATGTATT	ATCTATTGAC	GGCTCTAATC	TATTAGTTGT	4740
4741	TAGTGCACCT	AAAGATATT	TAGATAACCT	TCCTCAATTC	CTTCTACTG	TTGATTGGCC	4800
4801	AACCTGACCAG	ATATTGATTG	AGCGTTTGAT	ATTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
4861	TTTTTCAATT	GCTGCTGGCT	CTCAGCGTGG	CAGTGTGCA	GCGCGTGTTA	ATACTGACCG	4920
4921	CCTCACCTCT	GTTTTATCTT	CTGCTGGTGG	TTGCTTGGGT	ATTTTAAATG	GCGATGTTTT	4980
4981	AGGGCTATCA	GTTCCGCGAT	TAAAGACTAA	TAGCCATTCA	AAAAATTTGT	CTGTGCCAGC	5040
5041	TATTTCTTACG	CTTTCAGGTC	AGAAGGCTTC	TATCTCTGTT	GCGCAGAAATG	TCCCTTTTAT	5100
5101	TACTGGTCGT	GTGACTGGTG	AACTGCCAA	TGTAATAAAT	CAATTTGAGA	CGATTGACCG	5160
5161	TCAAAATGTA	GGTATTTCCT	TGAGCGTTTT	TCCTGTTGCA	ATGGCTGGCG	GTAATATTGT	5220
5221	TCTGGATATT	ACCAGCAAGG	CCGATAGTTT	GAGTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
5281	TACTAATCAA	AGAAGTATTG	CTACAACGGT	TAAITTCGGT	GATGGACAGA	CTCTTTTACT	5340
5341	CGGTGGCCTC	ACTGATTATA	AAACACTTC	TCAGATTCT	GCGGTACCGT	TCTGTCTAA	5400
5401	AATCCCTTTA	ATCGGCTCTC	TGTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCACGTT	5460
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTAGC	CGCCTGTAG	CGGCGCATTA	AGCGCGCGCG	5520
5521	GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CAGTTGCCAG	CGCCTAGCG	CCGCTCTCTT	5580
5581	TGGCTTTCTT	CCCTTCTCTT	CTGCCCACGT	TGCGCGGCTT	TCCCGCTCAA	GCTCTAAATC	5640
5641	GGGGGCTCCC	TTTAGGCTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAAGTTG	5700
5701	ATTTGGGTGA	TGGTTACGCT	AGTGGGCCAT	CGCCTGATA	GACCGTTTTT	CGCCTTTTGA	5760
5761	CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCT	AATCGGAACA	ACACTCAACC	5820
5821	CTATCTCGGG	CTATTCTTTT	GATTTATAG	GGATTTTGCC	GATTTGGGAA	CCACCATCAA	5880
5881	ACAGGATTTT	CGCCTGCTGG	GGCAAACCA	CGTGGACCGC	TGCTGCAAC	TCTCTCAGGG	5940
5941	CCAGGCGGTG	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTG	GTCAAAAGAA	AAACCAACCT	6000
6001	GGCGCCCAAT	ACGCAAAACG	CCTCTCCCGG	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	6060
6061	ACGACAGGTT	TCCCGACTCG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAA	GTGAGTTAGC	6120
6121	TCACTCATTA	GGCACCCAC	GCTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGCAA	6180
6181	TTGTGAGCGG	ATAACAAATT	CACACCGCTG	ACTTGGCACT	GCGCGTGGTT	TTACACGCTC	6240
6241	GTGACTGGGA	AAACCTTGGC	GTTACCCAA	CTTGTACAT	GGAGAAAATA	AAGTGAACA	6300
6301	AAGCACTATT	GCATGCGCAC	TCTTACCGTT	ACCGTTACTG	TTTACCCCTG	TGACAAAAGC	6360
6361	CGCCAGGTG	CAGCTGCTCG	AGTCAGGCGT	ATTGTGCCCA	GGGGATTGTA	CTAGTGGATC	6420
6421	CTAGGCTCAA	GGCGATGACC	GCTTAAGGC	TGCATTCAAT	AGTTTACAGG	CAAGTGGTAC	6480
6481	TGAGTACATT	GGCTACGCTT	GGCTATGGT	AGTAGTTATA	GTTGGTGCTA	CCATAGCEAT	6540
6541	TAAATTATTC	AAAAAGTTTA	CGAGCAAGGC	TTCTTAAGCA	ATAGCGAAGA	GGCCCCCACC	6600
6601	GATCGGCCCT	CCCAACAGTT	GCGCAGCCTG	AATCGCGAAT	GCGCGTTTGC	CTGGTTTCCG	6660
6661	GCACCAGAA	CGGTGCGGCA	AAGCTGGCTG	GAGTCCGATC	TTCTGAGGC	CGATACGGTC	6720
6721	GTGCTCCCTT	CAAACTGCA	GATGCACGGT	TACCATCGCG	CAATCTACAC	CAACGTAAAC	6780
6781	TATCCCATTA	CGGTCAATCC	GCGGTTTGT	CCCACGGAGA	ATCCGACCGG	TTGTTACTCG	6840
6841	CTCACATTTA	ATGTTGATGA	AAGCTGGCTA	CAGCAAGGCC	AGACCGCAAT	TATTTTGTAT	6900
6901	GCGGTTCTTA	TTGGTTAAAA	AATGAGCTGA	TTTAACAAA	ATTTAACCGC	AATTTTAAAC	6960
6961	AAATATTAA	GTTTACAAAT	TAAATATTG	CTTATACAA	CTTCTCTTTT	TTGGGCGCTT	7020
7021	TCTGATTATC	AACCGGCTTA	CATATGATG	ACATGCTAGT	TTTACGATTA	CGGTTCAATG	7080
7081	ATTCTCTTGT	TTGCTCCAGA	CTCTCAGGCA	ATGACCTGAT	AGCCTTTGTA	GATCTCTCAA	7140
7141	AAATAGCTAC	CCTCTCCGCG	ATTAATTTAT	CAGCTAGAAC	GCTTGAATAT	CATATTGATG	7200
7201	GTGATTGAC	TGTCTCCGCG	CTTCTCACC	CTTTTGAATC	TTTACCTACA	CATTACTCAG	7260
7261	GCATTTGCAAT	TAAATATAT	CAGGCTTCTA	AAAATTTTTA	TGCTTGGCTT	GAATATAAGG	7320
7321	CTTCTCCCGC	AAAGTATTA	CAGGCTCTA	ATGTTTTTGG	TACAAACGAT	TTAGCTTTAT	7380
7381	GCTCTGAGGC	TTTATTGCTT	AAITTTGCTA	ATTCTTTGCC	TTGCTGTAT	GATTTATTGG	7440
7441	ACGTT						7445

		10		20		30		40		50		60
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**FIGURE 3-1**

**M13DX11**

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT 60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGCA	AATGTAATCYA	ATGGTCACAA	TAAATCTTACT 120
121	CGTTCGCAGA	ATTGGGAATC	AACGTGTACA	TGGAAATGAA	CTCCAGACAC	CCGTACTTACT 180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTTC	AGCAATTAA	GCTTAAGCCA 240
241	TCCGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAGG	TACTCTCTAA	TCCTGACCTG 300
301	TTGGAGTTTG	CTTCCGGCTT	GGTTCCGTTT	GAAGCTCGAA	TFAAAAGCGG	ATATTTGAAG 360
361	TCTTTTCGGG	TTCCCTTTAA	CTTTTGTAT	GCAATCCGCT	TTGCTTCTGA	CTATAAATAG 420
421	CAGGGTAAAC	ACCTGATTTT	TGATTTATGG	TCAATTCGT	TTTCTGAAC	GTTTAAAGCA 480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCAG	TATTGGACGC	TATCCAGTCT 540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT 600
601	GGTTTTTATC	GTCGCTGGT	AAACGAGGCT	TATGATAGTG	TTGCTCTTAC	TATGCCCTGT 660
661	AATTCCTTTT	GGCGTATGT	ATGTCGATTA	GTTGAATGTG	GTATTCCTAA	ACTCAACTG 720
721	ATGAATCTTT	CTACCTGTAA	TAAATTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT 780
781	TCTTCCCAAC	GTCCGTACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA 840
841	CAATGATTTA	AGTTGAAAT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTT 900
901	CTCGTCAGG	CAAGCGTTAT	TACCTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG 960
961	AATATCCGGT	TCTTGTCAG	ATTACTCTTG	ATGAAGGTCA	CCGAGCCTAT	GCGCGTGGTC 1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC 1080
1081	GTCTGCGGCT	CGTTCCGCTT	AAGTAACATG	GAGCAGGTCC	CGGATTTCCA	CACAAATTAT 1140
1141	CAGGCGATGA	TACAAAATCT	CTTTGTACTT	TGTTTTCCGC	TTGGTATAAT	CGCTGGGGGT 1200
1201	CAAGATGAG	TGTTTTAGTG	TATTTTTCG	CCTCTTTCTG	TTAGGTTTGG	TGCTTCTGTA 1260
1261	GTGGCAATTAC	GTATTTTACC	CGTTTAAATG	AAACTTCTCT	ATGAAAAAGT	CTTTAGTCTT 1320
1321	CAAGCCCTCT	GTAGCCGTTG	CTACCCCTCG	TCCGATGCTG	TCTTTCCGCT	CTCAGGGTGA 1380
1381	CGATCCCGCA	AAAGCGGCTT	TAACTCCCTT	CCAAGCCTCA	GCGACCGAAT	ATATCCGTTA 1440
1441	TGCGTGGCGG	ATGGTTGTTG	TCAATGTCCG	CGCAACTATC	GGTATCTTTT	TGTTTAAAGA 1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTTAA	GGCTCTTTT	GGAGCCCTTT 1560
1561	TTTTTGGAGA	TTTTAAAGCT	GAAAAAATTA	TTATTCGCAA	TTCTTTAGT	TGTTCTCTTC 1620
1621	TATTTCTCAT	CCGCTGAAC	TGTTGAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAAATTA 1680
1681	TTTACTAACG	TCTGGAAGA	CGCAAAACT	TTAGATCGTT	ACGCTAATA	TGAGGGTTGT 1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTCAGC	AAACTCAGTG	TTACGGTACA 1800
1801	TGGGTTCTTA	TTGGGCTTGC	TATCCCTGAA	AATCAGGGTG	GTGGCTCTGA	GGGTGGCGGT 1860
1861	TCTCAGGGTG	CGGGTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT 1920
1921	ATTCGGGGCT	ATACTTATAT	CAACCTCTC	CGCGGCATCT	ATCCGCTCGG	TACTGAGCAA 1980
1981	AACCCCGCTA	ATCTTAATTC	TTCTCTTAG	GAGTCTCAGC	CTTTAATAT	TTCTGTGTTT 2040
2041	CAGAAATAA	GGTTCCGAAA	TAGGCAGGGC	GCATTAACCT	TTTATACGGG	CACTGTTACT 2100
2101	CAAGGCCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATC 2160
2161	TATGACCGTT	ATTGGAAGG	TAAATCCGA	GACTGCCCTT	TCCATTCTCG	CTTTAATGAA 2220
2221	GATCCATTCG	TTCTGCAATA	TAAAGCCCAA	TGCTTGACCT	TGCTTCAAC	TCCTTGCAAT 2280
2281	GCTGGCGGGC	GCTCTGGTGC	TGGTTCTGGT	CGCGGCTCTG	AGGGTGCTGG	CTCTGAGGGT 2340
2341	GGCGGTTCTG	AGGGTGCGGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGCTCT	TGGTTCCGGT 2400
2401	GATTTTGATT	ATGAAAGAT	GGCAACGCT	AATAAGGGGG	CTATGACCEA	AAATGCCCAT 2460
2461	CAAAACGGCC	TACAGTCTGA	CGTAAAGCT	AAACTTGATT	CTGTCCGTAC	TGATACCGGT 2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGGCTTG	CTAATGGTAA	TGGTGTACTT 2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAAATG	GCTCAAGTCC	GTGACGGTGA	TAAATCACCT 2640
2641	TTAATGAATA	ATTTCCGCTA	ATAATTAAC	TCCCTCCCTC	AATCGGTTGA	ATGTCCGGCT 2700
2701	TTTGTCTTTA	CGCGTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AAATAACCTA 2760
2761	TTCCGTGGTG	TTCTTGGGTT	CTTTTATAT	GTGGCCACTT	TATGTATGTT	ATTTCTAGCC 2820
2821	TTTGCTAACA	TACTGGGTAA	TAGGAGTCT	TAAATCATGC	AGTTCTTTTG	GGTATTCGGT 2880
2881	TATTAATTCG	TTTCCGCTGT	TTCTTCTGG	TAACTTTGTT	CGGCTATCTG	CTTACTTTTC 2940
2941	TTAAAAAGGC	CTTCCGTAG	ATAGCTATTG	CTATTTCTAT	GTCTTCTGCT	CTTATTTATG 3000
3001	GGCTTAACTC	AAATCTTGTT	GGTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT 3060
3061	TTGTTTCAGG	TGTTTCAGTA				

FIGURE 3-2

3841	TCCCGTCTTT	ATTCTTATTT	AACGCCTTAT	TTATCACACG	GTCCGTATTT	CAAACCATTA	3900
3901	AATTTAGGTC	AGAAGATGAA	GCTTACTAAA	ATATATTTGA	AAAAGTTTTT	ACCCGTTCTT	3960
3961	TGCTTTGCCA	TTGGATTTC	ATCAGCATTT	ACATATAGTT	ATATAACCCA	ACCTAAGCCC	4020
4021	GAGGTTAAAA	AGGTAGTCTC	TCAGACCTAT	GATTTTGATA	AATTCACTAT	TGACTCTTCT	4080
4081	CAGCGTCTTA	ATCTAAGCTA	TCGCTATGTT	TTCAAGGATT	CTAAGGGAAA	ATTAATTAAT	4140
4141	AGCGACGATT	TACAGAAGCA	AGGTTATTCA	CTCACATATA	TTGATTTATG	TACTGTTTCC	4200
4201	ATTAAAAAAG	GTAATTCAA	TGAAATGTT	AAATGTAATT	AATTTTGTTT	TCTTGATGTT	4260
4261	TGTTTCATCA	TCTTCTTTTC	CTCAGGTAAT	TGAAATGAAT	AATTCGCCTC	TCCGCCGATT	4320
4321	TGTAACCTGG	TATTCAAAGC	AATCAGGCCA	ATCCGTTATT	GTTTCTCCCC	ATGTAAGG	4380
4381	TACTGTTACT	GTATATTCAI	CTCAGCTTAA	ACCTGAAAAAT	CTACGCCAAT	TCTTTATTTC	4440
4441	TGTTTTACGT	GCTAATAATT	TTGATATGGT	TGGTTCAATT	CCTTCCATAA	TTCAGAAGTA	4500
4501	TAAATCCAAAC	AATCAGGATT	ATATTGATGA	ATTGCCATCA	TCTGATAATC	AGGAATATGA	4560
4561	TGATAAATTC	GCTCCTTCTC	GTGGTTTCTT	TGTTCCGCCAA	AATGATAATG	TTACTCAAAC	4620
4621	TTTTAAAAAT	AATAACGTTT	CGGCAAGGA	TTTAATACGA	GTTGTCGAAT	TGTTTGTAAG	4680
4681	GCTTAATACT	TCTAAATCCT	CAATGTATT	ATCTATTGAC	GCCTCTAATC	TATTAGTTGT	4740
4741	TAGTGACACT	AAAGATATT	TAGATAACCT	TCTCAATTC	CTTCTACTCT	TTGATTTGCC	4800
4801	AACCTGACCAG	ATATTGATTG	AGGTTTGAT	ATTTGAGGTT	CAGCAAGGTG	ATGCTTTAGA	4860
4861	TTTTTCAATT	GCTGCTGGCT	CTCAGCGTGG	CACGTGTGCA	CGCGGTGTTA	ATACTGACCC	4920
4921	CCTCACCCTCT	GTTTTAATCT	CTGCTGGTGG	TTGTTTGGGT	ATTTTTAATG	GCGATGTTTT	4980
4981	AGGGCTATCA	GTTCCGCCAT	TAAAGACTAA	TAGCCATTCA	AAAATATTGT	CTGTGCCACC	5040
5041	TATTTCTTACG	CTTTCAGGTC	AGAAGGGTTC	TATCTCTGTT	GGCCAGAAATG	TCCCTTTTAT	5100
5101	TACTGGTGGT	GTGACTGGTG	AACTGCCAA	TGTAATAAAT	CCATTTTACA	CGATTGAGCG	5160
5161	TCAAAATGTA	GCTATTTCOA	TGAGCGTTTT	TCTGTGTGCA	ATGGCTGGCG	GTAATATTGT	5220
5221	TCTCGATATT	ACCAGCAGGG	CCGATAGTTT	GAGTTCTTCT	ACTCAGGCAA	GTGATGTTAT	5280
5281	TACTAATCAA	AGAAGTATTC	CTACAACGGT	TAATTTGGCT	GATGGACAGA	CTCTTTTACT	5340
5341	CGGTGCGCTC	ACTGATTATA	AAACACTTC	TCAAGATTCT	GGCGTACCGT	TCTGTCTTAA	5400
5401	AATCCCTTTA	ATCGGCTTCC	TGTTTAGCTC	CCGCTCTGAT	TCCAACGAGG	AAAGCAGGTT	5460
5461	ATACGTGCTC	GTCAAAGCAA	CCATAGTACC	CGCCCTGTAG	CGGCGCATTA	AGCGCGGCGG	5520
5521	GTGCTGGTGGT	TACCGCCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	CCCGCTCTCT	5580
5581	TGCTTTTCTT	CCCTTCTCTT	CTGCGCAGCT	TGCGCGGCTT	TCCCGCTCAA	GCTCTAAATC	5640
5641	GGGGGCTCTCC	TTTAGGGTTC	CGATTTAGTG	CTTTACGGCA	CCTCGACCCC	AAAAAACTTG	5700
5701	ATTTGGGTGA	TGGTTCAGCT	AGTGGGCCAT	CGCCCTGATA	GACGGTTTTT	CGCCCTTTGA	5760
5761	CGTTGCGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCOA	AACTGGAACA	ACACTCAACC	5820
5821	CTATCTCGGG	CTATTCTTTT	GATTTATAAG	GGATTTTGCC	GATTTCCGAA	CCACCATCAA	5880
5881	ACAGGATTTT	CGCCTGCTGG	GGCAAGCCAG	CGTGGACCGC	TTGCTGCAAC	TCTCTCAGGG	5940
5941	CCAGGCGGTC	AAGGGCAATC	AGCTGTTGCC	CGTCTCGCTC	GTGAAAAGAA	AAACCACCTT	6000
6001	GGCGGCCAAAT	ACGCAAGCCG	CCTCTCCCTC	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	6060
6061	ACGACAGGTT	TCCCGACTGG	AAAGCGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	6120
6121	TCTACTATTA	GGCAGCCAG	GCCTTACACT	TTATGCTTCC	GGCTCTGATC	TTGTGTGGAA	6180
6181	TTGTGAGCGG	ATAACAATTT	CACAGCCCAA	GGAGACAGTC	ATAATGAAAT	ACCTATTGCC	6240
6241	TACGGCAGCC	GCTGGATTGT	TATTACTGCC	TGCCCCAACA	GCCATGGCCC	AGCTCGTGAT	6300
6301	GACCCAGACT	CCAGATATCC	AACAGGAATC	AGTGTTAATT	CTAGAAGCCG	TCACTTGCCA	6360
6361	CTGGCCGTCC	TTTTACAGCC	TGCTGACTGG	GAAAACCCCT	CGGTTACCCA	AGCTTAATCC	6420
6421	CCTTGCAGAA	TTCCCTTTCC	CCAGCTGGCC	TAATAGCGAA	GAGGCCCGCA	CCGATCGCCC	6480
6481	TTCCCAACAG	TTGCCAGCC	TGAATGGCGA	ATGGCGCTTT	GCCTGGTTTC	CGGCACCAGA	6540
6541	AGCGGTGCCC	GAAAGCTGGC	TGGAGTGCGA	TCTTCTGAG	GCCGATACGG	TGCTGTGCCC	6600
6601	CTCAAACCTGG	CAGATGCCGC	GTTACGATGC	GCCCATCTAC	ACCAACGTAA	CCTATCCCAT	6660
6661	TACGGTCAAT	CCGCCCTTTC	TTCCACGGA	GAATCCGAGC	GGTTCTTACT	CGCTCACATT	6720
6721	TAATGTTGAT	GAAAGCTGGC	TACAGGAAGG	CCAGACGCGA	ATTATTTTTC	ATGGCGTTCC	6780
6781	TATTGGTTAA	AAAATGAGCT	GATTTAACAA	AAATTTAAGC	CGAATTTTAA	CAAAATATTA	6840
6841	ACGTTTACAA	TTTAAATAT	TGCTTATACA	ATCTTCTGTT	TTTTGGGGCT	TTTCTGATTA	6900
6901	TCAACCGGGG	TACATATGAT	TGACATGCTA	GTTTTACGAT	TACCGTTCAI	CGATTCTCTT	6960
6961	GTTTGGTCCA	GACTCTGAGG	CAATGAGCTG	ATAGCGTTTG	TAGATCTCTC	AAAAATAGCT	7020
7021	ACCGTCTCCG	GCAATTAATT	ATCAGCTAGA	ACGGTTGAAT	ATCATATTGA	TGGTGATTTG	7080
7081	ACTGTCTCCG	GCTTTCTCTA	CCCTTTTGAA	TCTTTAOCCTA	CACATTACTC	AGGCATTGCA	7140
7141	TTTTAAATAT	ATGAGGGTTC	TAAAAATTTT	TATCCTTGCG	TTGAAATAAA	GGCTTCTCCC	7200
7201	GCAAAAGTAT	TACAGGGTCA	TAAATGTTTT	GGTACAACCG	ATTAGCTTTT	ATGCTCTGAG	7260
7261	GCTTTATTGC	TAAATTTTGC	TAAATTTTGC	CCTTGGCTGT	ATGATTTATT	CGATGTTT	7317

FIGURE 4-1

IX13

	10	20	30	40	50	60	
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAAT	60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT	120
121	CGTTCCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA	180
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA	240
241	TCCGCAAAAA	TGACCTCTTA	TCAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG	300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TAAAAACGCG	ATATTTGAG	360
361	TCTTTCGGGC	TTCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT	420
421	CAGGGTAAAG	ACCTGATTTT	TGATTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA	480
481	TTTGAGGGGG	ATTCAATGAA	TATTATGAC	GATTCGCCAG	TATTGGACGC	TATCCAGTCT	540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT	600
601	GGTTTTTATC	GTCGTCTGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT	660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCTTAA	ATCTCAACTG	720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT	780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA	840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTC	900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG	960
961	AATATCCGGT	TCTTGTCAGG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC	1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC	1080
1081	GTCTGCGCCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTGC	CGGATTTCGA	CACAATTAT	1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT	1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTCTTTCC	CCTCTTTCTG	TTTAGGTTGG	TGCCTTCGTA	1260
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCCT	1320
1321	CAAAGCCTCT	TAGCCGTTG	CTACCCTCGT	TCCGATGCTG	TCTTTCTGCTG	CTGAGGGTGA	1380
1381	CGATCCCGCA	AAAGCGGCCT	TAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCCGTTA	1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCCG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA	1500
1501	ATTCACCTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT	1560
1561	TTTTTGAGAG	TTTCAACGT	GAAAAAATTA	TTATTGCAAA	TTCCCTTAGT	TGTTCCCTTC	1620
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAAATTA	1680
1681	TTTACTAACG	TCTGGAAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT	1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA	1800
1801	TGGGTTCCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT	1860
1861	TCTGAGGGTG	CGCGTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT	1920
1921	ATTCGGGGCT	ATACTTATAT	CAACCCTCTC	GACGGCACTT	ATCCGCTGCG	TACTGAGCAA	1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT	2040
2041	CAGAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACCTG	TTTATACGGG	CACCTGTTACT	2100
2101	CAAGGCACCTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG	2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA	2220
2221	GATCCATTCTG	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCTCAACC	TCCTGTCAAT	2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT	2340
2341	GGCGGTCTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCGG	GTGGTGGCTC	TGGTTCCGGT	2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT	2460
2461	GAAAAACGCG	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTCGCTAC	TGATTACGGT	2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT	2580
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT	2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT	2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTTCTATTG	ATTGTGACAA	AATAAACTTA	2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTGCCCACCT	TTATGTATGT	ATTTTCTACG	2820
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT	2880
2881	TATTATTGCG	TTTCTCCGGT	TTCTTCTGG	TAACCTTTGT	CGGCTATCTG	CTTACTTTTC	2940
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CCTGTTTCTT	GCTCTTATTA	TTGGGCTTAA	3000
3001	CTCAATTCTT	TGGGTTATC	TCTCTGATAT	TAGCGCTCAA	TTACCTCTG	ACTTTGTTCA	3060
3061	GGGTGTTTCA	TTAATCTCC	CGTCTAATGC	GCTTCCCTGT	TTTTATGTTA	TTCTCTCTGT	3120
3121	AAAGGCTGCT	ATTTTCATTT	TTGACGTTAA	ACAAAAATC	GTTTCTTATT	TGGATTGGGA	3180
3181	TAAATAATAT	GGCTGTTTAT	TTTGTAACCTG	GCAAATTAGG	CTCTGGAAAG	ACGCTCGTTA	3240
3241	GCGTTGGTAA	GATTGAGGAT	AAAATTGTAG	CTGGGTGCAA	AATAGCAACT	AATCTTGATT	3300
3301	TAAGGCTTCA	AAACCTCCCG	CAAGTCGGGA	GGTTCGTA	AACGCCCTCG	GTTCTTAGAA	3360
3361	TACCGGATAA	GCCTTCTATA	TCTGATTTGC	TTGCTATTGG	GCGCGGTAAT	GATTCCCTACG	3420
3421	ATGAAAAATA	AAACGGCTTG	CTTGTCTCTG	ATGAGTGCGG	TACTTGTTTT	AATACCCGTT	3480
3481	CTTGGAAATGA	TAAGGAAAGA	CAGCCGATTA	TTGATTGGTT	TCTACATGCT	CGTAAATTAG	3540
3541	GATGGGATAT	TATTTTCTTT	GTTTCAAGACT	TATCTATTGT	TGATAAACAG	GCGCGTTCTG	3600
3601	CATTAGCTGA	ACATGTTGTT	TATTGTCTGC	GTCTGGACAG	AATTACTTTA	CCTTTTGTCTG	3660
3661	GTACTTTTATA	TTCTCTTATT	ACTGGCTCGA	AAATGCCTCT	GCCTAAATTA	CATGTTGGCG	3720
3721	TTGTTAAATA	TGGCGATTCT	CAATTAAGCC	CTACTGTTGA	GCGTTGGCTT	TATACTGGTA	3780
3781	AGAATTTGTA	TAACGCATAT	GATACTAAAC	AGGCTTTTTT	TAGTAATTAT	GATTCCGGTG	3840

FIGURE 4-2

3841	TTTATTCTTA	TTTAACGCCT	TATTTATCAC	ACGGTCGGTA	TTTCAAACCA	TTAAATTTAG	3900
3901	GTCAGAAGAT	GAAGCTTACT	AAAATATATT	TGAAAAAGTT	TTCACGCGTT	CTTTGTCTTG	3960
3961	CGATTGGATT	TGCATCAGCA	TTTACATATA	GTTATATAAC	CCAACCTAAG	CCGGAGGTTA	4020
4021	AAAAGGTAGT	CTCTCAGACC	TATGATTTTG	ATAAAATTCAC	TATTGACTCT	TCTCAGCGTC	4080
4081	TTAATCTAAG	CTATCGCTAT	GTTTTCAAGG	ATTCTAAGGG	AAAATTAATT	AATAGCGACG	4140
4141	ATTTACAGAA	GCAAGGTTAT	TCACTCACAT	ATATTGATTT	ATGTACTGTT	TCCATTAAAA	4200
4201	AAGGTAATTC	AAATGAAATT	GTTAAATGTA	ATTAATTTTG	TTTTCTTGAT	GTTTGTTC	4260
4261	TCATCTTCTT	TTGCTCAGGT	AATTGAAATG	AATAATTCGC	CTCTGCGCGA	TTTTGTAACT	4320
4321	TGGTATTCAA	AGCAATCAGG	CSAATCCGTT	ATTGTTTCTC	CCGATGTAAA	AGGTACTGTT	4380
4381	ACTGTATATT	CATCTGACGT	TAAACCTGAA	AATCTACGCA	ATTTCTTTAT	TTCTGTTTTA	4440
4441	CGTGCTAATA	ATTTTGATAT	GSTTGGTTCA	ATTCCTTCCA	TAATTGAGAA	GTATAATCCA	4500
4501	AACAATCAGG	ATTATATTGA	TGAATTGCCA	TCATCTGATA	ATCAGGAATA	TGATGATAAT	4560
4561	TCCGCTCCTT	CTGGTGGTTT	CTTTGTTC	CAAAATGATA	ATGTTACTCA	AACCTTTTAA	4620
4621	ATTAATAACG	TTCCGGCAAA	GGATTAAATA	CGAGTTGTCG	AATTGTTTGT	AAAGTCTAAT	4680
4681	ACTTCTAAAT	CCTCAAAATG	ATTATCTATT	GACGGCTCTA	ATCTATTAGT	TGTTAGTGCA	4740
4741	CCTAAAGATA	TTTAGATAA	CCTTCTCAA	TTCTTTCTA	CTGTTGATTT	GCCAACGTAC	4800
4801	CAGATATTGA	TTGAGGGTTT	GATATTGAG	GTTACAGCAAG	GTGATGCTTT	AGATTTTTC	4860
4861	TTTGCTGCTG	GCTCTCAGCG	TGSCACTGTT	GCAGGCGGTG	TTAATACTGA	CCGCCTCACC	4920
4921	TCTGTTTTAT	CTTCTGCTGG	TGTTCTGTTT	GGTATTTT	ATGGCGATGT	TTTAGGGCTA	4980
4981	TCAGTTCGCG	CATTAAAGAC	TAATAGCCAT	TCAAAAATAT	TGTCTGTGCC	ACGTATTCTT	5040
5041	ACGCTTTCAG	GTGAGAAAGG	TTCTATCTCT	GTGGCCAGA	ATGTCCTTTT	TATTACTGGT	5100
5101	CGTGTGACTG	GTGAATCTGC	CAATGTAAAT	AATCCATTTT	AGACGATTGA	GCGTCAAAAT	5160
5161	GTAGGTATTT	CCATGAGCGT	TTTTCTGTTT	GCAATGGCTG	GCGGTAATAT	TGTTCTGGAT	5220
5221	ATTACCAGCA	AGGCCGATAG	TTTGAGTTCT	TCTACTCAGG	CAAGTGATGT	TATTACTAAT	5280
5281	CAAAGAAGTA	TTGCTACAAC	GGTTAATTTG	CGTGATGGAC	AGACTCTTTT	ACTCGGTGGC	5340
5341	CTCACTGATT	ATAAAAACAC	TTCTCAAGAT	TCTGGCGTAC	CGTTCTCTGT	TAAAAATCCCT	5400
5401	TTAATCGGCC	TCCTGTTTAG	CTCCCGCTCT	GATTCCAACG	AGGAAAGCAC	GTTTACGCTG	5460
5461	CTCGTCAAAG	CAACCATAGT	ACGCGCCCTG	TAGCGGCGCA	TTAAGCGCGG	CGGGTGTGGT	5520
5521	GGTTACGCGC	AGCGTGACCG	CTACACTTGC	CAGCGCCCTA	GCGCCCGCTC	CTTTGCTTTT	5580
5581	CTTCCCTTCC	TTTCTCGCCA	CGTTCCGCGG	CTTCCCGCT	CAAGCTCTAA	ATCGGGGGCT	5640
5641	CCCTTTAGGG	TTCCGATTTA	GTGCTTTACG	GCACCTCGAC	CCCCAAAAAC	TTGATTTGGG	5700
5701	TGATGGTTCA	CGTAGTGGG	CATCGCCCTG	ATAGACGGTT	TTTCGCCCTT	TGACGTGGA	5760
5761	GTCCACGTTT	TTAATAGTG	GACTCTTGTT	CCAAACTGGA	ACAACACTCA	ACCCTATCTC	5820
5821	GGGCTATTCT	TTTGATTAT	AAGGGATTTT	GCCGATTTCG	GAACCACCAT	CAAACAGGAT	5880
5881	TTTCGCCCTG	TGGGGCAAAAC	CAGCGTGGAC	CGCTTGCTGC	AACTCTCTCA	GGGCCAGGCG	5940
5941	GTGAAGGGCA	ATCAGCTGTT	GCCCGTCTCG	CTGGTGAAAA	GAAAAACCAC	CCTGGCGCCC	6000
6001	AATACGCAAA	CCGCCTCTCC	CCGCGCGTTG	GCCGATTCA	TAATGCAGCT	GGCAGGACAG	6060
6061	GTTTCCCGAC	TGGAAAGCGG	GCAGTGAGCG	CAACGCAATT	AATGTGAGTT	AGCTCACTCA	6120
6121	TTAGGCACCC	CAGGCTTTAC	ACTTTATGCT	TCCGGCTCGT	ATGTTGTGTG	GAATTGTGAG	6180
6181	CGGATAACAA	TTTACACGCG	CAAGGAGACA	GTCATAATGA	AATACCTATT	GCCTACGGCA	6240
6241	GCCGCTGGAT	TGTTATTACT	CGCTGCCCCA	CCAGCCATGG	CCGAGCTCTT	CCCGCCATCT	6300
6301	GATGAGCAGT	TGAAATCTGG	AACGTCCCTCT	GTTGTGTGCC	TGCTGAATAA	CTTCTATCCC	6360
6361	AGAGAGGCCA	AAGTACAGTG	GAAGGTGGAT	AACGCCCTCC	AATCGGGTAA	CTCCAGGAG	6420
6421	AGTGTACAG	AGCAGGACAG	CAAGGACAGC	ACCTACAGCC	TCAGGAGCAC	CCTGACGCTG	6480
6481	AGCAAAGCAG	ACTACGAGAA	ACACAAAGTC	TACGCCCTGCG	AAGTCACCCA	TCAGGGCCTG	6540
6541	AGCTCGCCCG	TCACAAAGAG	CTTCAACAGG	GGAGAGTGTT	CTAGAACGCG	TCACTTGGCA	6600
6601	CTGGCCGTCG	TTTTACAACG	TCGTGACTGG	GAAAACCCCTG	GCGTTACCCA	AGCTTAATCG	6660
6661	CCTTGACAGAA	TTCCCTTTTC	CCAGCTGGCG	TAATAGCGAA	GAGGCCGCA	CCGATCGCCC	6720
6721	TTCCCAACAG	TGCGGAGCC	TGAATGGCGA	ATGGCGCTTT	GCCTGGTTTC	CGGCACCAGA	6780
6781	AGCGGTGCGG	GAAAGCTGGC	TGGAGTGCGA	TCTTCTCTGAG	GCCGATACGG	TCGTCGTCCC	6840
6841	CTCAAACCTGG	CAGATGACCG	GTTACGATGC	GCCCCATCTAC	ACCAACGTAA	CCTATCCCAT	6900
6901	TACGGTCAAT	CCGCCGTTTG	TTCCACGGA	GAATCCGACG	GGTTGTTACT	CGCTCACATT	6960
6961	TAATGTTGAT	GAAAGCTGGC	TACAGGAAGG	CCAGACGCGA	ATTATTTT	ATGGCGTTCC	7020
7021	TATTGGTTAA	AAAATGAGCT	GATTTAACAA	AAATTTAACG	CGAATTTTAA	CAAAATATTA	7080
7081	ACGTTTACAA	TTTAAATATT	TGCTTATACA	ATCTTCTGT	TTTTGGGGCT	TTTCTGATTA	7140
7141	TCAACCGGGG	TACATATGAT	TGACATGCTA	GTTTTACGAT	TACCGTTTCA	CGATTCTCTT	7200
7201	GTTTGCTCCA	GACTCTCAGG	CAATGACCTG	ATAGCCTTTG	TAGATCTCTC	AAAAATAGCT	7260
7261	ACCCTCTCCG	GCATTAATTT	ATCAGCTAGA	ACGGTTGAAT	ATCATATTGA	TGGTGATTG	7320
7321	ACTGTCTCCG	GCCTTTCTCA	CCCTTTTGAA	TCTTTACCTA	CACATTACTC	AGGCATTGCA	7380
7381	TTTAAATAT	ATGAGGGTTC	TAAAAATTTT	TATCCTTGCG	TTGAAATAAA	GGCTTCTCCC	7440
7441	GCAAAAGTAT	TACAGGGTCA	TAATGTTTTT	GGTACAACCG	ATTTAGCTTT	ATGCTCTGAG	7500
7501	GCTTTATTGC	TTAATTTTGC	TAATTCCTTG	CCTTGCCCTG	ATGATTTATT	GGATGTT	7557

FIGURE 5-1

EX34

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT
121	CGTTCGCAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA
181	GTTGCATATT	TAAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TAAAAACGCG	ATATTTGAAG
361	TCTTTCGGGC	TTCCTCTTAA	TCTTTTTSAT	GCAATCCGCT	TGCTTCTGA	CTATAATAGT
421	CAGGGTAAAG	ACCTGATTTT	TGATTATGAG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCCGAG	TATTGGACGC	TATCCAGTCT
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT
601	GGTTTTTATC	GTCTCTGGT	AAACGAGGGT	TATGATAGTG	TGCTCTTAC	TATGCCTCGT
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT
781	TCTTCCCAAC	GTCTGACTG	GTATAATGAG	CCAGTTCCTA	AAATCGCATA	AGGTAATTC
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGT
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TGGGTAATG
961	AATATCCGGT	TCTTGTCAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC
1081	GTCTGCGCCT	CGTTCGGGCT	AAGTAACATG	GAGCAGGTCT	CGGATTTCGA	CACAATTTAT
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TGGTATAAT	CGCTGGGGGT
1201	CAAAGATGAG	TGTTTTAGTG	TATTTCTTCG	CCTCTTTCTG	TTTAGGTTGG	TGCCTTCGTA
1261	GTGGCATTAC	GTATTTTACC	CGTTTAATGG	AAACTTCCTC	ATGAAAAAGT	CTTTAGTCTC
1321	CAAAGCCTCT	GTAGCCGTTG	CTACCCCTCG	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA
1381	CGATCCCGCA	AAAGCGGCCT	TTAACTCCCT	GCAAGCCTCA	GCGACCGAAT	ATATCGGTTA
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCTG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA
1501	ATTACCTTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT
1561	TTTTTGGAGA	TTTTCACGTT	GAAAAAATTA	TTATTCCGAA	TTCTTTAGT	TGTTCTTTTC
1621	TATTCTCACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAAATTC
1681	TTTACTAACG	TCTGGAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT
1741	CTGTGGAATG	CTACAGCGCT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA
1801	TGGGTTCTTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT
1861	TCTGAGGGTG	GCGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT
1921	ATTCGGGGCT	ACTCTTATAT	CAACCCTCTC	GACGGCACCT	ATCCGCTTGG	TACTGAGCAA
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCATGTTT
2041	CAGAAATAATA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACCT	TTTATACGGG	CACTGTTACT
2101	CAAGGCACTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA
2221	GATCCATTTC	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCTCAAC	TCCTGTCAAT
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT
2341	GGCGGTTCTG	AGGGTGGCGG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT
2401	GATTTTGATT	ATGAAAAGAT	GGCAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTGCTAC	TGATTACGGT
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCCTT	CTAATGGTAA	TGGTGCTACT
2581	GGTGATTTTG	CTGGCTCTAA	TTCCCAAATG	GCTCAAGTCC	GTGACGGTGA	TAATTCACCT
2641	TTAATGAATA	ATTTCCGCTA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AATAAACTTA
2761	TTCCGTGGTG	TCTTTCGGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG
2821	TTTGCTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTTCTTTTG	GGTATTCCGT
2881	TATTATTGCG	TTTCTCCGGT	TTCTTCTGG	TAACCTTTGTT	CGGCTATCTG	CTTACTTTTC
2941	TTAAAAAGGG	CTTCGGTAAG	ATAGCTATTG	CTATTTTCATT	GTTTCTTGCT	CTTATTATTG
3001	GGCTTAACCT	AATTCCTTGT	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT
3061	TTGTTTCAGG	TGTTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTG
3121	TCTCTGTAAA	GGCTGCTATT	TTCAATTTTG	ACGTTAAACA	AAAAATCGTT	TCTTATTTGG
3181	ATTGGGATAA	ATAATATGCG	TGTTTATTTT	GTAACCTGCA	AATTAGGCTC	TGGAAGACG
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT
3301	CTTGATTTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAAC	GCCTCGCGTT
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAA
3481	ACCCGTTCTT	GGAAATGATA	GGAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGTT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG
3601	CGTTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAA	TACTTTACCT
3661	TTTGTGCGTA	CTTTATATTC	TCTTATTACT	GGCTCGAAAA	TGCCTCTGCC	TAAATTACAT
3721	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT
3781	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTCTAG	TAATTATGAT



FIGURE 5-2

3841	TCCGGTGT	TTCTTAT	AACGCC	TTAT	TATCAC	AG	GTCGGT	ATTT	CAAACC	ATTA	3900
3901	AATTTAGG	TC	AGAAGAT	GAA	GCTTACT	AAA	ATATATT	TGA	AAAAGT	TTTC	3960
3961	TGTCTTGC	GA	TTGGATT	TS	ATCAGCAT	TT	ACATATAG	TT	ATATAAC	CCCA	4020
4021	GAGGTTAA	AAAA	AGGTAGT	CTC	TCAGACCT	AT	GATTTTG	ATA	AATTCAC	TAT	4080
4081	CAGCGTCT	TA	ATCTAAG	CTA	TCGCTAT	GTT	TTCAAGG	ATT	CTAAGGG	AAA	4140
4141	AGCGACG	ATT	TACAGA	AGCA	AGGTTATT	CA	CTCACAT	ATA	TTGATT	TATG	4200
4201	ATTAATAA	AAAG	GTAATT	CAAA	TGAAATT	GTT	AAATGTA	ATT	AAATTT	GTTT	4260
4261	TGTTTCAT	CA	TCTTCT	TTTC	CTCAGG	TAA	TGAAATG	AAT	TTCCG	CTC	4320
4321	TGTAAC	TG	TATTCAA	AGC	AATCAGG	CGA	ATCCG	TTAT	GTTTCT	CCCG	4380
4381	TACTGTT	ACT	GTATATT	CA	CTGACG	TTAA	ACCTG	AAAA	CTACG	CAAT	4440
4441	TGTTTTAC	GT	GCTAATA	ATT	TTGATAT	GTT	TGGTTCA	ATT	CCTTCC	ATAA	4500
4501	TAATCCAA	AC	AATCAGG	ATT	ATATTG	ATGA	ATTGCC	ATCA	TCTGAT	AATC	4560
4561	TGATAAT	TCC	GCTCCT	TTCTG	GTGGTT	TCTT	TGTTCCG	CAA	AATGATA	ATG	4620
4621	TTTTAAAA	TT	AATAACG	TTT	GGGCAA	AGGA	TTTAATAC	GGA	GTGTCG	AA	4680
4681	GTCTAATA	CT	TCTAAAT	CTCT	CAAAAT	GTATT	ATCTATT	GAC	GGCTCTA	ATC	4740
4741	TAGTGCA	CCCT	AAAGAT	ATTT	TAGATA	ACCT	TCCTCA	ATT	CTTTCT	ACTG	4800
4801	AACGAC	CAG	ATATTG	ATTG	AGGGTT	TGAT	ATTGAG	GTT	CAGCAAG	GTTG	4860
4861	TTTTTCAT	TT	GCTGCT	GGCT	CTCAGC	GTTG	CACGTT	GCA	GGCGGT	GTTA	4920
4921	CCTCAC	CTCT	GTTTTAT	CTT	CTGCTG	GTTG	TTCGTT	CGGT	ATTTTTA	ATG	4980
4981	AGGGCT	ATCA	GTTCCG	CGAT	TAAAGAC	TAA	TAGCCAT	TCA	AAAAAT	TATGT	5040
5041	TATCTT	TACG	CTTTCAG	GTC	AGAAGG	GTTT	TATCTCT	GTT	GGCCAGA	ATG	5100
5101	TACTGGT	CGT	GTGACT	GTTG	AATCTG	CCAA	TGTAAAT	AA	CCATTTC	AGA	5160
5161	TCAAAAT	GTA	GGTATT	TCCA	TGAGCG	TTTT	TCCTGT	TGCA	ATGGCT	GCGG	5220
5221	TCTGGAT	ATT	ACCAGCA	AGG	CCGATAG	TTT	GAGTTCT	TCT	ACTCAGG	CAA	5280
5281	TACTAAT	CAAA	AGAAGT	ATTG	CTACAAC	GTT	TAATTTG	CGT	GATGGAC	AGA	5340
5341	CGGTGGC	CTC	ACTGATT	TATA	AAAACAC	TTT	TCAAGAT	TCT	GGCGT	ACCGT	5400
5401	AATCCCT	TTTA	ATCGGC	CTCC	TGTTAG	CTC	CCGCTCT	GAT	TCCAACG	AGG	5460
5461	ATACGTG	CTC	GTCAAAG	CAA	CCATAGT	ACG	CGCCCTG	TAG	CGGCGC	ATTA	5520
5521	GTGTGGT	GTT	TACGCG	CAGC	GTGACC	GCTA	CACCTTG	CCAG	CGCCCT	AGCG	5580
5581	TCGCTTT	CTT	CCCTTCT	TTT	CTCGCC	ACGT	TCGCGG	CTT	TCCCGG	CTCA	5640
5641	GGGGCTC	CCC	TTTAGGG	TTC	CGATT	TAGT	CTTTACG	GCA	CCTCGA	CCCC	5700
5701	ATTTGGG	TGA	TGGTTCA	CGT	AGTGGG	CCAT	CGCCCTG	ATA	GACGGT	TTTT	5760
5761	CGTTGG	AGTC	CACGTT	CTTT	AATAGT	GAGC	TCTTGT	TCCA	AACTGG	AACA	5820
5821	CTATCTC	GGG	CTATTCT	TTTT	GATTATA	AAG	GGATTTT	GCC	GATTTG	CGGA	5880
5881	ACAGGAT	TTT	CGCTGCT	G	GGCAAAC	CAG	CGTGGA	CCCG	TTGCTG	CAAC	5940
5941	CCAGGCG	GTTG	AAGGGCA	ATC	AGCTGT	TGCC	CGTCTCG	CTG	GTGAAA	AGAA	6000
6001	GGCGCCCA	AT	ACGCAAA	CCG	CCTCTC	CCCC	CGCGTTG	GCC	GATTCAT	TAA	6060
6061	ACGACAG	GTT	TCCCGAC	TGG	AAAGCGG	GCA	GTGAGCG	CAA	CGCAAT	TAA	6120
6121	TCACTCA	TTA	GGCACCC	CAG	GCTTAC	ACT	TTATGCT	TCC	GGCTCG	TATG	6180
6181	TTGTGAG	CGG	ATAACA	ATTT	CACACG	CTC	ACTTGGC	ACT	GGCGT	CGTT	6240
6241	GTGACTG	GGA	AAACCC	TGGC	GTTACCC	AAG	CTTTGT	TACAT	GGAGAAA	ATA	6300
6301	AAGCACT	ATT	GCAC	TGGCAC	TCTTAC	CGTT	ACTGTTT	TACC	CCTGTG	GCAA	6360
6361	CCAGCTG	CTC	GAGTCG	GTTCT	TCCCCT	TGGC	ACCCCTC	TCC	AAGAGC	ACCT	6420
6421	AGCGGCC	CTG	GGCTGC	CTGG	TCAAGAC	TAA	TTCCCCG	AAC	CGGTGAC	GGT	6480
6481	TCAGGCG	CCC	TGACCAG	CGG	CGTGCA	CACC	TTCCCGG	CTG	TCCTAC	AGTC	6540
6541	TACTCCCT	CA	GCAGCG	TGGT	GACCGT	GCCC	TCCAGC	AGCT	TGGGCAC	CCCA	6600
6601	TGCAACG	TGA	ATCACA	AGCC	CAGCAAC	ACC	AAGGTGG	GACA	AGAAAG	CAGA	6660
6661	TGTACTA	GTG	GATCTAC	CCC	GTACGAC	GTT	CCGGA	CTAGC	CTTCTA	GAGC	6720
6721	GACCC	TGCTA	AGGCTG	CATT	CAATAG	TTTA	CAGGCA	AGTG	CTACTG	AGTA	6780
6781	GCTTGGG	CTA	TGGTAG	TAGT	TATAGT	TGGT	GCTACCA	TAG	GGATTAA	ATT	6840
6841	TTTACG	AGCA	AGGCTT	CTTA	AGCAAT	AGCG	AAGAGG	CCCCG	CACCGA	TCCG	6900
6901	AGTTGCG	CAG	CCTGAAT	GCG	GAATGG	CGCT	TTGCCT	GTT	TCCGGC	ACCA	6960
6961	CGGAAAG	CTG	GCTGGAG	TGC	GATCTT	CTCT	AGGCCG	ATAC	GGTCG	TCTC	7020
7021	GGCAGAT	GCA	CGGTTAC	GAT	GCGCCC	ATCT	ACACCA	ACGT	AACCTA	TCCC	7080
7081	ATCCGCC	GTT	TGTTCCC	ACG	GAGAAT	CCGA	CGGGTT	GTTA	CTCGCT	CACA	7140
7141	ATGAAAG	CTG	GCTACAG	GAA	GGCCAG	ACGC	GAATTAT	TTT	TGATGG	CGTT	7200
7201	AAAAAAT	GAG	CTGATT	TAA	AAAAAT	TAA	CGCGAA	TTTTT	AACAAA	TAT	7260
7261	AATTTAA	ATA	TTTGCT	TATA	CAATCT	TCTCT	GTTTTT	GGGG	CTTTCT	GTAT	7320
7321	GGTACAT	ATG	ATTGAC	ATGC	TAGTTT	TACG	ATTACCG	TTT	ATCGAT	TCTC	7380
7381	CAGACTC	TCA	GGCAAT	GACC	TGATAG	CCCT	TGTAGAT	CTC	TCAAAA	TATG	7440
7441	CGGCAT	TAA	TTATCAG	TGA	GAACGG	TTGA	TACACAT	TAC	TCAGGC	ATTG	7500
7501	CGGCC	TTTCT	CACCTT	TTTG	AATCTT	TACC	CGTTGAA	ATA	AAGGCT	TCTC	7560
7561	ATATGAG	GGT	TCTAAAA	ATT	TTTATC	CTTG	CGATT	TAGCT	TTATGCT	CTG	7620
7621	ATTACAG	GGT	CATAAT	GTTT	TTGGTAC	AAC	GTATGAT	TTA	TTGGAC	GTT	7680
7681	GCTTAAT	TTTT	GCTAAT	TCTT	TGCCTG	CCCT					7729

FIGURE 6-1

1x60

	10	20	30	40	50	60
1	AATGCTACTA	CTATTAGTAG	AATTGATGCC	ACCTTTTCAG	CTCGCGCCCC	AAATGAAAAT 60
61	ATAGCTAAAC	AGGTTATTGA	CCATTTCGGA	AATGTATCTA	ATGGTCAAAC	TAAATCTACT 120
121	CGTTTCGAGA	ATTGGGAATC	AACTGTTACA	TGGAATGAAA	CTTCCAGACA	CCGTACTTTA 180
181	GTTGCATATT	TAAACATGT	TGAGCTACAG	CACCAGATTC	AGCAATTAAG	CTCTAAGCCA 240
241	TCTGCAAAAA	TGACCTCTTA	TCAAAAGGAG	CAATTAAAGG	TACTCTCTAA	TCCTGACCTG 300
301	TTGGAGTTTG	CTTCCGGTCT	GGTTCGCTTT	GAAGCTCGAA	TAAAACGCG	ATATTTTGAAG 360
361	TCTTTCGGGC	TTCCTCTTAA	TCTTTTGAT	GCAATCCGCT	TTGCTTCTGA	CTATAATAGT 420
421	CAGGTAAG	ACCTGATTTT	TGATTTATGG	TCATTCTCGT	TTTCTGAACT	GTTTAAAGCA 480
481	TTTGAGGGGG	ATTCAATGAA	TATTTATGAC	GATTCCGCG	TATTGGACGC	TATCCAGTCT 540
541	AAACATTTTA	CTATTACCCC	CTCTGGCAAA	ACTTCTTTTG	CAAAAGCCTC	TCGCTATTTT 600
601	GGTTTTTATC	GTCGCTCGGT	AAACGAGGGT	TATGATAGTG	TTGCTCTTAC	TATGCCTCGT 660
661	AATTCCTTTT	GGCGTTATGT	ATCTGCATTA	GTTGAATGTG	GTATTCCTAA	ATCTCAACTG 720
721	ATGAATCTTT	CTACCTGTAA	TAATGTTGTT	CCGTTAGTTC	GTTTTATTAA	CGTAGATTTT 780
781	TCTTCCCAAC	GTCCTGACTG	GTATAATGAG	CCAGTTCTTA	AAATCGCATA	AGGTAATTCA 840
841	CAATGATTAA	AGTTGAAATT	AAACCATCTC	AAGCCCAATT	TACTACTCGT	TCTGGTGTTC 900
901	CTCGTCAGGG	CAAGCCTTAT	TCACTGAATG	AGCAGCTTTG	TTACGTTGAT	TTGGGTAATG 960
961	AATATCCGGT	TCTGTCAAG	ATTACTCTTG	ATGAAGGTCA	GCCAGCCTAT	GCGCCTGGTC 1020
1021	TGTACACCGT	TCATCTGTCC	TCTTTCAAAG	TTGGTCAGTT	CGGTTCCCTT	ATGATTGACC 1080
1081	GTCGCGCGCT	CGTTCCGGCT	AAGTAACATG	GAGCAGGTGC	CGGATTTCCA	CACAATTTAT 1140
1141	CAGGCGATGA	TACAAATCTC	CGTTGTACTT	TGTTTCGCGC	TTGGTATAAT	CGCTGGGGGT 1200
1201	CAAAGATGAG	TGTTTTAGTG	TATTTCTTCG	CCTCTTTCGT	TTTAGGTTGG	TGCCTTCGTA 1260
1261	GTGGCATTAC	GATTTTACC	CGTTTAATGG	AAACTTCCCTC	ATGAAAAAGT	CTTTAGTCCT 1320
1321	CAAGCCTCT	GTAGCCGTTC	CTACCCTCGT	TCCGATGCTG	TCTTTCGCTG	CTGAGGGTGA 1380
1381	CGATCCCGCA	AAAGCGGCGT	TTAACTCCCT	GCAAGCCTCA	GCGACEGAAT	ATATCGGTGA 1440
1441	TGCGTGGGCG	ATGGTTGTTG	TCATTGTCCG	CGCAACTATC	GGTATCAAGC	TGTTTAAGAA 1500
1501	ATTCACTTCG	AAAGCAAGCT	GATAAACCGA	TACAATTAAA	GGCTCCTTTT	GGAGCCTTTT 1560
1561	TTTTTGAGA	TTTCAACGT	GA AAAAATTA	TTATTCGCAA	TTCTTTTAGT	TGTTCCTTTC 1620
1621	TATTCCTACT	CCGCTGAAAC	TGTTGAAAGT	TGTTTAGCAA	AACCCCATAC	AGAAAATTCA 1680
1681	TTTACTAACG	TCTGGAAGA	CGACAAAAC	TTAGATCGTT	ACGCTAACTA	TGAGGGTTGT 1740
1741	CTGTGGAATG	CTACAGGCGT	TGTAGTTTGT	ACTGGTGACG	AAACTCAGTG	TTACGGTACA 1800
1801	TGGGTTCCTA	TTGGGCTTGC	TATCCCTGAA	AATGAGGGTG	GTGGCTCTGA	GGGTGGCGGT 1860
1861	TCTGAGGGTG	CGGGTTCTGA	GGGTGGCGGT	ACTAAACCTC	CTGAGTACGG	TGATACACCT 1920
1921	ATTCCGGGCT	ATACCTTATAT	CAACCTCTC	GACGGCACTT	ATCCGCTTGG	TACTGAGCAA 1980
1981	AACCCCGCTA	ATCCTAATCC	TTCTCTTGAG	GAGTCTCAGC	CTCTTAATAC	TTTCTAGTTT 2040
2041	CAGAAATAA	GGTTCCGAAA	TAGGCAGGGG	GCATTAACCTG	TTTATACGGG	CACTGTTACT 2100
2101	CAAGGCACCTG	ACCCCGTTAA	AACTTATTAC	CAGTACACTC	CTGTATCATC	AAAAGCCATG 2160
2161	TATGACGCTT	ACTGGAACGG	TAAATTCAGA	GACTGCGCTT	TCCATTCTGG	CTTTAATGAA 2220
2221	GATCCATTCC	TTTGTGAATA	TCAAGGCCAA	TCGTCTGACC	TGCCCTCAACC	TCCTGTCAAT 2280
2281	GCTGGCGGCG	GCTCTGGTGG	TGGTTCTGGT	GGCGGCTCTG	AGGGTGGTGG	CTCTGAGGGT 2340
2341	GGCGGTTCTG	AGGGTGGGCG	CTCTGAGGGA	GGCGGTTCCG	GTGGTGGCTC	TGGTTCCGGT 2400
2401	GATTTTGATT	ATGAAAAGAT	GGCAAAACGCT	AATAAGGGGG	CTATGACCGA	AAATGCCGAT 2460
2461	GAAAACGCGC	TACAGTCTGA	CGCTAAAGGC	AAACTTGATT	CTGTGCGTAC	TGATTACGGT 2520
2521	GCTGCTATCG	ATGGTTTCAT	TGGTGACGTT	TCCGGCCTTG	CTAATGGTAA	TGGTGCTACT 2580
2581	GGTGATTTTG	CTGGCTCTAA	TCCCAAATG	GCTCAAGTCG	GTGACGGTGA	TAATTCACCT 2640
2641	TTAATGAATA	ATTTCCGTCA	ATATTTACCT	TCCCTCCCTC	AATCGGTTGA	ATGTCGCCCT 2700
2701	TTTGTCTTTA	GCGCTGGTAA	ACCATATGAA	TTTCTATTG	ATTGTGACAA	AATAAECTTA 2760
2761	TTCCGTGGTG	TCTTTGCGTT	TCTTTTATAT	GTTGCCACCT	TTATGTATGT	ATTTTCTACG 2820
2821	TTTGCTTAACA	TACTGCGTAA	TAAGGAGTCT	TAATCATGCC	AGTCTTTTGG	GGTATTCCGT 2880
2881	TATTATTGGG	TTTCTCTGGT	TTCTTCTGG	TAACCTTTGT	CGGCTATCTG	CTTACTTTTC 2940
2941	TTAAAAAGGG	CTTCGGTAAAG	ATAGCTATTG	CTATTTTCATT	GTTTCTTGCT	CTTATTATTG 3000
3001	GGCTTAACCT	AATCTTGTG	GGTTATCTCT	CTGATATTAG	CGCTCAATTA	CCCTCTGACT 3060
3061	TTGTTACAGG	TGTTTCAGTTA	ATTCTCCCGT	CTAATGCGCT	TCCCTGTTTT	TATGTTATTCT 3120
3121	TCTCTGTAAA	GGCTGCTATT	TTCATTTTGG	ACGTTAAACA	AAAAATCGTT	TCTTATTTTGG 3180
3181	ATTGGGATAA	ATAATATGGC	TGTTTATTTT	GTAACCTGCCA	AATTAGGCTC	TGGAAAGACG 3240
3241	CTCGTTAGCG	TTGGTAAGAT	TCAGGATAAA	ATTGTAGCTG	GGTGCAAAAT	AGCAACTAAT 3300
3301	CTTGATTAA	GGCTTCAAAA	CCTCCCGCAA	GTCGGGAGGT	TCGCTAAAC	GCCTCGCGTT 3360
3361	CTTAGAATAC	CGGATAAGCC	TTCTATATCT	GATTTGCTTG	CTATTGGGCG	CGGTAATGAT 3420
3421	TCCTACGATG	AAAATAAAAA	CGGCTTGCTT	GTTCTCGATG	AGTGCGGTAC	TTGGTTTAAT 3480
3481	ACCCGTTCTT	GGAATGATAA	GGAAGACAG	CCGATTATTG	ATTGGTTTCT	ACATGCTCGT 3540
3541	AAATTAGGAT	GGGATATTAT	TTTTCTTGT	CAGGACTTAT	CTATTGTTGA	TAAACAGGCG 3600
3601	CGTCTGCAT	TAGCTGAACA	TGTTGTTTAT	TGTCGTCGTC	TGGACAGAAT	TACTTTACCT 3660
3661	TTTGCTGGTA	CTTTATATTCT	TCTTATTACT	GGCTCGAAAA	TGCCCTCTGCC	TAAATTACAT 3720
3721	GTTGGCGTTG	TTAAATATGG	CGATTCTCAA	TTAAGCCCTA	CTGTTGAGCG	TTGGCTTTAT 3780
3781	ACTGGTAAGA	ATTTGTATAA	CGCATATGAT	ACTAAACAGG	CTTTTCTTAG	TAATTATGAT 3840

FIGURE 6-2

HUSE P31 8882

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3841 TCCGGTGTAT ATTCTTATTT AACGCCCTTAT TTATCACACG GTCGGTATTT CAAACCATT 3900
3901 AATTTAGGTC AGAAGATGAA GCTTACTAAA ATATATTGTA AAAAGTTTTC ACGCGTCTT 3960
3961 TGTCTTSCGA TTGGATTTGC ATCAGCATTT ACATATAGTT ATATAACCCA ACCTAAGCCG 4020
4021 GAGGTAAAA AGGTAGTCTC TCAGACCTAT GATTITGATA AATTCATAT TCACTCTTCT 4080
4081 CAGCGTCTTA ATCTAAGCTA TCGCTATGTT TTCAAGGATT CTAAGGGAAA ATTAATTAAT 4140
4141 AGCGACGATT TACAGAAGCA AGGTATTCA CTCACATATA TTGATTATG TACTGTTTCC 4200
4201 ATTAAAAAAG GTAATTCAAA TGAATTGTT AAATGTAATT AATTTTGTTC TCTTGATGTT 4260
4261 TGTTCATCA TCTTCTTTTG CTCAGGTAAT TGAATGAAT AATTCGCCCT TCGCGGATTT 4320
4321 TGTAACTTGG TATTCAAAGC AATCAGGCGA ATCCGTATT GTTTCGCCG ATGTAAGAG 4380
4381 TACTGTACT GTATATTCAT CTGACGTTAA ACCTGAAAAT CTACGCAATT TCTTTATTT 4440
4441 TGTTTTACGT GCTAATAATT TTGATATGGT TGGTTCAATT CCTTCCATAA TTCAGAAGTA 4500
4501 TAATCCAAAC AATCAGGATT ATATTGATGA ATTGCCATCA TCTGATAATC AGGAATATGA 4560
4561 TGATAATTCC GCTCTTCTG CTGCTTCTT TGTTCGCCAA AATGATAATG TTAATCAAC 4620
4621 TTTTAAATTT AATAACGTTT GGGCAAGGA TTTAATACGA GTTGCGAAT TGTTTGTA 4680
4681 GCTAATACT TCTAATCTT CAAATGTATT ATCTATTGAC GGCTCTAATC TATTAGTTGT 4740
4741 TAGTGACCTT AAAGATATTT TAGATAACCT TCCTCAATTC CTTTCTACTG TTGATTGGC 4800
4801 AACTGACCG ATATTGATTG AGGGTTTGAT ATTTGAGGTT CAGCAAGGTG ATGOTTAGA 4860
4861 TTTTCAATTT GCTGCTGGCT CTCAGCGTGG CACTGTTGCA GCGCGTGTTA ATACTGACCG 4920
4921 CCTCACCTCT GTTTTATCTT CTGCTGGTGG TTCGTTCCGT ATTTTAAATG GCGATGTTTT 4980
4981 AGGGCTATCA GTTCGGCAT TAAAGACTAA TAGCCATTCA AAAATATTGT CTGTGCCACG 5040
5041 TATTCTTAGC CTTTCAGGTC AGAAGGGTTC TATCTCTGTT GCGCAGAATG TCCCTTTTAT 5100
5101 TACTGGTCTG GTGACTGGTG AATCTGCCAA TGTAAATAAT CCATTTCAGA CGATTGAGCG 5160
5161 TCAAAATGTA GGTATTTCCA TGAGCGTTTT TCCTGTTGCA ATGGCTGGCG GTAATATTGT 5220
5221 TCTGATATT ACCAGCAAGG CCSATAGTTT GAGTTCTTCT ACTCAGGCAA GTGATGTTAT 5280
5281 TACTAATCAA AGAAGTATTG CTACAACGGT TAATTGCGT GATGGACAGA CTCTTTTACT 5340
5341 CGGTGGCCTC ACTGATTATA AAAACACTTC TCAAGATTCT GCGCTACCGT TCCTGTCTAA 5400
5401 AATCCCTTTA ATCGGCCTCC TGTTAGCTC CCGCTCTGAT TCCAACGAGG AAAGCAGCTT 5460
5461 ATACGTGCTC GTCAAAGCAA CCATAGTAGC CGCCCTGTAG GCGCGCATT AAGCGCGCGG 5520
5521 GTGTGGTGGT TACGCGCAGC GTGACCGGTA CACTTGCCAG CGCCCTAGCG CCGCTCTCTT 5580
5581 TCGCTTTCTT CCCTTCTTTT CTCGCCACGT TCGCCGGCTT TCCCGTCAA GCTCTAAATC 5640
5641 GGGGGCTCCC TTTAGGGTTC CGATTAGTG CTITACGGCA CCTCGACCCC AAAAATTTG 5700
5701 ATTTGGGTGA TGGTTACGTT AGTGGGCCAT CGCCCTGATA GACGGTTTTT CGCCCTTTGA 5760
5761 CGTTGGAGTC CAGGTTCTTT AATAGTGGAC TCTTGTTC AACTGGAACA ACACCTAACC 5820
5821 CTATCTCGGG CTATCTTTT GATTATAAG GGATTTTGGC GATTTCGGAA CCACCATCAA 5880
5881 ACAGGATTTT CGCTGCTGG GGCAAACCAG CGTGGACCGG TTGCTGCAAC TCTCTCAGG 5940
5941 CCAGGCGGTG AAGGGCAATC AGCTGTTGCC CGTCTCGCTG GTGAAAAGAA AAACCACCT 6000
6001 GCGGCCCAAT ACCTAAACCG CCTCTCCCCG CCGGTTGGCC GATTCAATTA TGCAGCTGGC 6060
6061 ACGACAGGTT TCCCGACTGG AAAGCGGGCA GTGAGCGCAA CGCAATTAAT GTGAGTTAGC 6120
6121 TCACTCATT GGCACCCAG GCTTTACACT TTATGCTTCC GGCTCGTATG TTGTGTGGAA 6180
6181 TGTGAGCGG ATAACAATT CACACGCCAA GGAGACAGTC ATAATGAAAT ACCTATTGCC 6240
6241 TACGGCAGCC GCTGGATTGT TATTACTCGG TGCCCAACCA GCCATGGCCG AGCTCTTCCC 6300
6301 GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCTCTGTT GTGTGCTTGC TGAATAACT 6360
6361 CTATCCAGA GAGGCCAAG TACAGTGGAA GGTGGATAAC GCGCTCCAAT CGGGTAATC 6420
6421 CCAGGAGAGT GTCACAGAGC AGGACAGCAA GGACAGCACC TACAGCCTCA CGACGACCT 6480
6481 GACGCTGAGC AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA 6540
6541 GGGCCTGAGC TCGCCCTGCA CAAAGAGCTT CAACAGGGGA GAGTGTCTA GAACGCGTCA 6600
6601 CTGGCAGCT GCGGCTGTTT TACAACGTCG TGACTGGGAA AACCTTGGCG TTACCCAAGC 6660
6661 TTTGTACATG GAGAAAATAA AGTGAAACAA AGCACTATTG CACTGGCACT CTTACCGTTA 6720
6721 CTGTTTACCC CTGTGGCAAA AGCCGCCCTC ACCAAGGGCC CATCGGCTTT CCCCCTGGCA 6780
6781 CCCTCTCCA AGAGCACCTC TGGGGGCACA GCGGCCCTCG GCTGCTGGT CAAGACTAAT 6840
6841 TCCCCGAACC GGTGACGTC TCGTGAACCT CAGGCGCCCT GACCAGCGGC GTGCACACCT 6900
6901 TCCCGGCTGT CCTACAGTTC TCAGGACTCT ACTCCCTCAG CAGCGTGGTG ACCGTGCCCT 6960
6961 CCAGCAGCTT GGGCACCAG ACCTACATCT GCAACGTGAA TCACAAGCCC AGCAACACCA 7020
7021 AGGTGGACAA GAAAGCAGAG CCCAAATCTT GTACTAGTGG ATCCTACCCG TACGAGGTT 7080
7081 CCGACTACGC TTCTTAGGCT GAAGGCGATG ACCCTGCTAA GGCTGCATTC AATAGTTTAC 7140
7141 AGGCAAGTGC TACTGAGTAC ATTGGCTACG CTTGGGCTAT GGTAGTAGTT ATAGTTGGT 7200
7201 CTACCATAGG GATTAAATTA TTCAAAAAGT TTACGAGCAA GCGTCTTAA GCAATAGCGA 7260
7261 AGAGGCCCGC ACCGATCGCC CTTCCCAACA GTTGGCAGC CTGAATGGCG AATGGCGCTT 7320
7321 TGCTGTGTTT CCGGCACAGC AAGCGGTGCC GGAAAGCTCG CTGGAGTGGC ATCTTCTGA 7380
7381 GGCGGATACG GTCGTCGTCC CCTCAAACGT GCAGATGCAC GGTTACGATG CGCCCATCTA 7440
7441 CACCAACGTA ACCTATCCCA TTACGGTCAA TCGCGCGTTT GTTCCACGG AGAATCCGAC 7500
7501 GGGTGTGTTAC TCGCTCACAT TTAATGTTGA TGAAGCTCG CTACAGGAAG GCCAGACGCG 7560
7561 AATTATTTT GATGGCGTTC CTATTGGTTA AAAATGAGC TGATTAAACA AAAATTTAAC 7620
7621 CGGAATTTT ACAAATATT AACGTTTACA ATTTAAATAT TTGCTTATAC AATCTTCTG 7680
7681 TTTTGGGCG TTTTCTGATT ATCAACGGGG GTACATATGA TTGACATGCT AGTTTACGA 7740
7741 TTACGTTTCA TCGATTCTCT TGTTTGCTCC AGACTCTCAG GCAATGACCT GATAGCCTTT 7800
7801 GTAGATCTCT CAAAATAGC TACCCTCTCC GGCATTAATT TATCAGCTAG AACGGTTGAA 7860
7861 TATCATATTG ATGCTGATTT GACTGTCTCC GGCCTTTCTC ACCCTTTTGA ATCTTTACCT 7920
7921 ACACATTACT CAGGCATTGC ATTTAAATA TATGAGGGTT CTAAAAATTT TTATCCTTGC 7980
7981 GTTGAATAA AGGCTTCTCC CGCAAAAGTA TTACAGGGTC ATAATGTTTT TGGTACAACC 8040
8041 GATTTAGCTT TATGCTCTGA GGCTTTATTG CTTAATTTTG CTAATCTTT GCTTGCCTG 8100
8101 TATGATTTAT TGGACGTT

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